

- A2
- (ii) a second segment including a first transcribable polynucleotide sequence; and
  - (iii) a third segment including a second transcribable polynucleotide sequence, said second transcribable polynucleotide sequence being operatively linked to a second promoter sequence, said third segment being flanked by said first and second segments, wherein a pair of site-specific recombination sequences are disposed one between said first segment and said third segment and another between said second segment and said third segment, such that said first promoter sequence is operatively coupled with said first transcribable polynucleotide sequence only following excision of said third segment from the expression cassette by site specific recombination via said pair of site-specific recombination sequences;
- (b) introducing a recombinase into said first plant, so as to excise said third segment thereby operatively adjoining said first transcribable polynucleotide sequence to said first promoter sequence; and
  - (c) crossing a plant resultant from step (b) and said second plant, so as to generate an offspring characterized by exogenic allelism.

Sub 32 > 49. (Amended) A method of generating exogenic allelism in a plant, the method comprising the steps of:

- A3
- (a) providing a first and second isogenic plants homozygous for an expression cassette including:
    - (i) a first segment including a first transcribable polynucleotide sequence, said first transcribable polynucleotide sequence being operatively linked to a first promoter sequence, said

first segment being flanked by a pair of first site-specific recombination sequences; and

- (ii) a second segment, being linked to said first segment, said second segment including a second transcribable polynucleotide sequence, said second transcribable polynucleotide sequence being operatively linked to a second promoter sequence, said second segment being flanked by a pair of second site-specific recombination sequences;

- (b) introducing a first recombinase into said first plant, so as to excise said first segment;
- (c) introducing a second recombinase into said second plant, so as to excise said second segment; and
- (d) crossing a plant resultant from step (b) with a plant resultant from step (c), so as to generate an offspring characterized by exogenic allelism.

50. (Amended) A plant homozygous for an expression cassette including:

- (a) a first segment including a first promoter sequence;
- (b) a second segment including a first transcribable polynucleotide sequence; and
- (c) a third segment including a second transcribable polynucleotide sequence, said second transcribable polynucleotide sequence being operatively linked to a second promoter sequence, said third segment being flanked by said first and second segments, wherein a pair of site-specific recombination sequences are disposed one between said first segment and said third segment and another between said second segment and said third segment, such that said first promoter sequence is operatively coupled with said first

transcribable polynucleotide sequence only following excision of said third segment from the expression cassette by site specific recombination via said pair of site-specific recombination sequences.

said second transcribable sequence being selected such that an expression product thereof activates said first promoter sequence to direct transcription of said first transcribable sequence.

51. (Amended) A plant homozygous for an expression cassette including:

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- (a) a first segment including a first transcribable polynucleotide sequence, said first transcribable polynucleotide sequence being operatively linked to a first promoter sequence, said first segment being flanked by a pair of first site-specific recombination sequences; and
  - (b) a second segment, being linked to said first segment, said second segment including a second transcribable polynucleotide sequence, said second transcribable polynucleotide sequence being operatively linked to a second promoter sequence, said second segment being flanked by a pair of second site-specific recombination sequences.

52. (Amended) A plant genome comprising a pair of exogenes, wherein a first exogene of said pair of exogenes being located on a first chromosome of a chromosome pair of the plant genome, and further wherein a second exogene of said pair of exogenes being located on a second chromosome of said chromosome pair of the plant genome, said first and said second exogenes being in allelic relationship, such that said first and said second exogenes obligatorily segregate to different gametes.

~~53. (Amended) The plant of claim 52, wherein said first and second exogenes are selected such that expression thereof generates a male sterile plant.~~

~~54. (Amended) The plant of claim 53, wherein by crossing said male sterile plant with a male fertile plant results in offspring characterized by male fertility.~~

A3 Sub B3 → 55. (Amended) Plant seeds each of which comprising a genome, said genome including a pair of exogenes, wherein a first exogene of said pair of exogenes being located on a first chromosome of a chromosome pair of said genome of the plant seeds, and further wherein a second exogene of said pair of exogenes being located on a second chromosome of said chromosome pair of said genome of the plant seeds, said first and said second exogenes being in allelic relationship, such that said first and said second exogenes obligatorily segregate to different gametes.

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**Please Add New claims 56-57 as follows:**

Sub C3  
a4 56. (new) The method of claim 47, wherein said first and said second transcribable polynucleotide sequences are selected such that said offspring is male sterile and female fertile.

57. (new) The method of claim 49, wherein said first and said second transcribable polynucleotide sequences are selected such that said offspring is male sterile and female fertile.

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### REMARKS

Reconsideration of the above-identified application in view of the amendments above and the remarks following is respectfully requested.